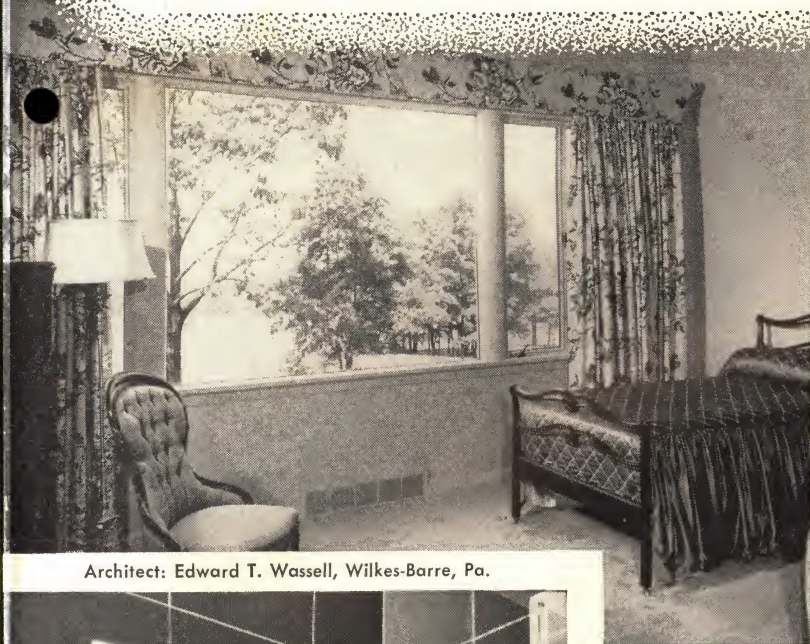


Pittsburgh Glass

for better homes and stores

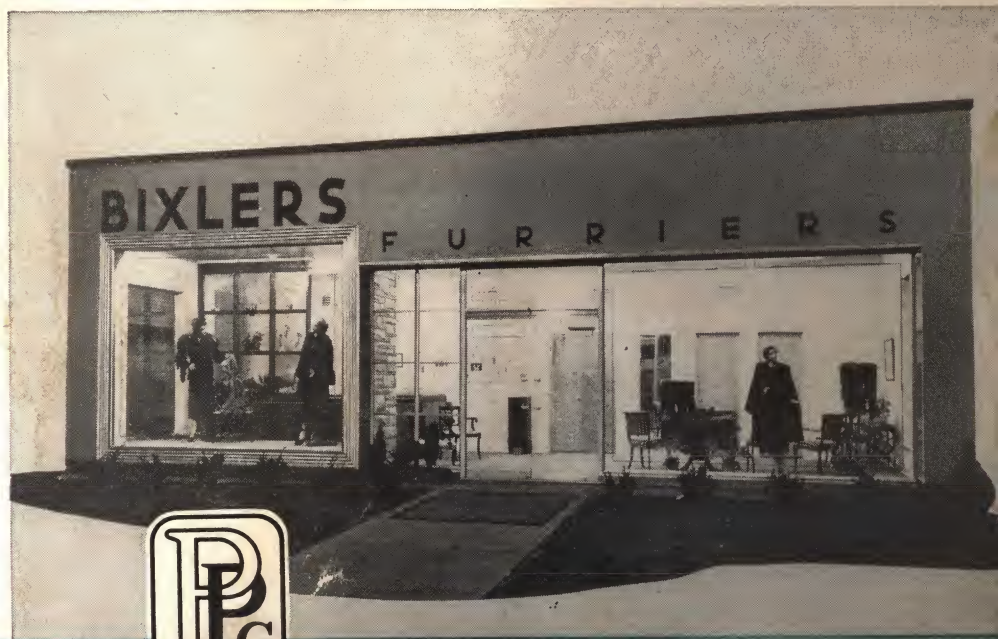
A little extra glass means a lot of extra charm



Architect: Edward T. Wassell, Wilkes-Barre, Pa.



Designer & Builder: Henry Doelger, San Francisco, Calif.



PITTSBURGH PLATE GLASS COMPANY

Glass Helps to Sell Homes

Builders everywhere have proved to their profit what the adequate use of glass in their homes can do. They've found that glass provides that extra measure of value that always appeals to prospective home buyers, regardless of the price class. They've discovered that every nickel they spend for glass *shows!* And they've proved that glass can effect all these benefits at less cost than any other material.

Pittsburgh has been a pioneering force in the development of glass products for residential construction for more than fifty years. Some of these products are illustrated and described on this and following pages. Why not use Pittsburgh Products in homes you build—to make them more attractive and easier to sell?

Pittsburgh Polished Plate Glass

Recognized as the aristocrat of transparent flat glass products, Pittsburgh Polished Plate Glass is brilliant and accurately reflective of surface. It permits perfectly clear, undistorted vision through it at any angle. Among its many uses are: windows, shelves of all kinds, furniture and cabinet tops, shower doors and enclosures, bar and table tops, sill covers, push plates. It's available in four colors: regular, flesh tinted, blue, green—in thicknesses from $\frac{13}{64}$ " to $1\frac{1}{4}$ ".



EVEN in the low-priced home, Pittsburgh Polished Plate Glass can be used in many effective ways. For picture windows, as shown here, this glass is ideal, adds "see-able" value to your homes. And Plate Glass shelves, as sketched at right, bring smartness and appeal to any home. Designer: Jan Ruhtenberg, Colorado Springs, Colo.



Pennvern[®] Window Glass



IN homes of all types, Pennvern Window Glass assures good vision. That's because it has an unusually brilliant and reflective surface for sheet glass; one that is unmarred on both sides of the sheet.

Builder: Carl M. Freeman, Inc., Washington, D. C.

Here's a quality window glass that's known nationally as "window glass at its best!" It has excellent visual properties and a high degree of transparency, flatness and freedom from defects. Its dense surface structure permits easy cleaning. Pennvern is widely used for windows, French doors, shelves, corner windows, sun porches, skylights, greenhouses and winter windows.



Saddle-Wood Homes—Tandy & Allen, Builders, Hillside, N. J.

TWINDOW *has the edge!*



This stainless steel frame makes handling easier and safer . . . saves installation time on the job.

Twindow, Pittsburgh's window with built-in insulation, is as simple to install as a single pane of glass. It adds exceptional "buy-appeal" to any home. It admits an abundance of daylight, frames a striking view for enjoyment from within the house. It cuts heat loss, eliminates downdrafts. And under normal conditions, it reduces the tendency for condensation to form. Forty-seven standard Twindow sizes are available to meet almost any need. See list of these sizes and other pertinent information on the next page.



HERE'S proof of the efficient insulating properties of Twindow. Notice the absence of fogging or condensation on the Twindow unit at the left. On the other hand, the single panes at right have a thick icy formation, indicating high heat loss. Subsequently a second Twindow unit was installed to replace the single pane window. Architect: H. S. Starin, Duluth, Minn.

TWINDOWELD®...the all-glass insulating window with electrically-welded all-glass edge

TwindoWeld is the result of years of research and test installations in scores of homes. It is simple in design. It's homogeneous, permanent, with an all-glass seal. It's composed of two panes of quality Pennvernon window glass ($\frac{1}{8}$ " thick), separated by a $\frac{3}{16}$ " air space. It is as easy to install as a single pane of glass.

Under average conditions, TwindoWeld will reduce the amount of heat transfer by nearly one-half of that which is normally transferred through conventional single-glazed windows.

This means actual savings in home heating and air conditioning costs.

TwindoWeld reduces condensation problems, too; there is less tendency for room side glass fogging during winter months. And the vision it permits offers greater enjoyment of the outdoors from indoors. Ideal for wood window-wall construction in $45\frac{1}{2}$ " x $25\frac{1}{2}$ " and $42\frac{1}{2}$ " x $22\frac{1}{2}$ " sizes; for metal window-wall construction in 36 " x 24 " and $34\frac{1}{16}$ " x $22\frac{1}{16}$ " sizes. TwindoWeld is also available in any special size where a quantity of this size is needed.



How to Glaze

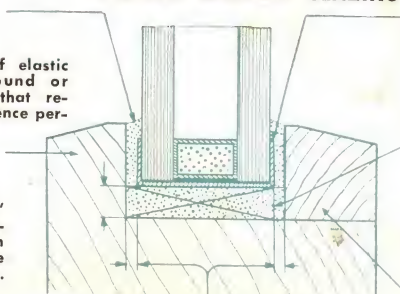
PICTURE WINDOW GLAZING

GLAZING COMPOUND

Exclusive use of elastic glazing compound or other material that retains some resilience permanently.

EDGE CLEARANCE

$\frac{1}{8}$ " - $\frac{3}{16}$ " - $\frac{1}{4}$ " at all edges, depending upon size. Distribute proportionately. Do not force.



LATERAL CLEARANCE

At least $\frac{1}{16}$ " for glazing compound.

EDGE COVERAGE

Stainless steel channel covered for uniform appearance and maximum edge insulation.

SETTING BLOCKS

Two, lead or treated wood, 3" to 4" long, located $\frac{1}{4}$ of the width in from each end of the unit on all units wider than 36" or heavier than 50 lbs. Shims equally helpful in spacing smaller, lighter units.

STOP

Glass stop does not bear on unit.

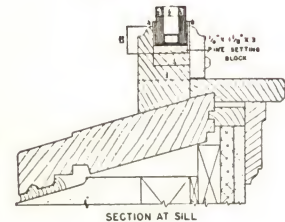
TWINDOW® Standard Sizes for Picture Windows

Twindow Insulating Units Composed of 2 Pieces of Polished Plate Glass with 1/2" Air Space

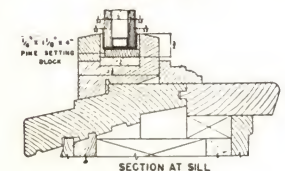
STANDARD SIZES

	GLASS		SASH		SASH MANUFACTURER (Other sash manufacturers not listed may be able to supply equally satisfactory sash in these or modified designs.)
	WIDTH	HEIGHT	WIDTH	HEIGHT	
GROUP I	48 1/2 x 46		4'4" x 4'2"		<p>Anson & Gilkey, Merrill, Wisc. Carr, Adams & Collier Co., Dubuque, Iowa †Curtis Companies, Inc., Clinton, Iowa & Wausau, Wisc. Farley & Loetscher Mfg. Co., Dubuque, Iowa Huttig Mfg. Co., Muscatine, Iowa Morgan Co., Oshkosh, Wisc. Rock Island Millwork Co., Rock Island, Ill. Semling-Menke Co., Merrill, Wisc.</p> <p>*Andersen Corporation Pressure Seal Picture Window Sash differing only slightly from the design shown will take the three 1" sizes, also 48 1/2" x 46"; 56 1/2" x 46 1/8"; 64 1/2" x 58"; 48 1/2" x 50"; 64 1/2" x 50"; 56 1/2" x 50".</p> <p>Brown-Graves Co., Akron, Ohio, do not manufacture wood sash in this design but their sash will take sizes 48 1/2" x 46"; 72 1/2" x 46"; 48 1/2" x 50"; 64 1/2" x 50"; 72 1/2" x 50"; 48 1/2" x 58"; 72 1/2" x 58"; and 80 1/2" x 58".</p> <p>Cupples Products Co., St. Louis, Missouri, manufacture aluminum sash to take sizes 48 1/2" x 50"; 56 1/2" x 50"; 64 1/2" x 50"; 72 1/2" x 50"; 80 1/2" x 50"; 64 1/2" x 58"; 72 1/2" x 58"; and 80 1/2" x 58".</p> <p>Weather-Seal Corp., Barberton, Ohio. Weather-Seal sash, outside glazed, will take sizes 48 1/2" x 50"; 56 1/2" x 50"; 64 1/2" x 50"; 72 1/2" x 50"; 64 1/2" x 58"; 72 1/2" x 58".</p> <p>†Curtis regular picture window sash modified to take sizes 56 1/2" x 50"; 64 1/2" x 50"; 72 1/2" x 50" only.</p> <p>Sash and frames also available without flanking double hung windows.</p>
	56 1/2 x 46 1/8		5'0" x 4'2"		
	72 1/2 x 46		6'4" x 4'2"		
	48 1/2 x 50		4'4" x 4'6"		
	56 1/2 x 50		5'0" x 4'6"		
	64 1/2 x 50		5'8" x 4'6"		
	72 1/2 x 50		6'4" x 4'6"		
	80 1/2 x 50		7'0" x 4'6"		
	96 1/2 x 50		8'4" x 4'6"		
	64 1/2 x 58		5'8" x 5'2"		
	72 1/2 x 58		6'4" x 5'2"		
	80 1/2 x 58		7'0" x 5'2"		
	96 1/2 x 58		8'4" x 5'2"		
	116 1/2 x 58		10'0" x 5'2"		
GROUP I*	64 1/2 x 46		5'8" x 4'2"		
	48 1/2 x 58		4'4" x 5'2"		
	56 1/2 x 58 1/8		5'0" x 5'2"		
GROUP II	35 1/2 x 36		3'13/4" x 3'2 3/16"		<p>Andersen Corporation, Bayport, Minnesota</p> <p>Sash and frames also available without flanking casement windows.</p>
	55 1/4 x 36		4'9 1/2" x 3'2 3/16"		
	75 x 36		6'5 1/4" x 3'2 3/16"		
	35 1/2 x 48 1/8		3'13/4" x 4'23/8"		
	55 1/4 x 48 1/8		4'9 1/2" x 4'23/8"		
	75 x 48 1/8		6'5 1/4" x 4'23/8"		
	35 1/2 x 60 3/8		3'13/4" x 5'2 9/16"		
	55 1/4 x 60 3/8		4'9 1/2" x 5'2 9/16"		
	75 x 60 3/8		6'5 1/4" x 5'2 9/16"		
GROUP III	50 3/8 x 47 7/8		4'5 1/8" x 4'25/8"		<p>Ceco Steel Products Co., Chicago, Ill. Hopes Windows, Inc., Jamestown, N. Y. Mesker Brothers Iron Co., St. Louis, Mo. J. S. Thorn Co., Philadelphia, Pa. Truscon Steel Co., Youngstown, Ohio</p> <p>The sizes included were developed in cooperation with the Metal Window Institute, an association of steel sash manufacturers, to be used as picture windows in steel sash, with or without flanking casement windows.</p> <p>Sash and frames also available without flanking casement windows.</p>
	66 3/8 x 47 7/8		5'9 3/8" x 4'25/8"		
	50 3/8 x 60 1/4		4'5 1/8" x 5'3"		
	66 3/8 x 60 1/4		5'9 3/8" x 5'3"		
GROUP IV	46 1/8 x 52 1/2		4'0" x 4'8"		<p>Aluminum Window Corp., Garden City, L. I.</p> <p>Sash and frames also available without flanking double hung windows.</p>
	58 1/8 x 52 1/2		5'0" x 4'8"		
	70 1/8 x 52 1/2		6'0" x 4'8"		
	46 1/8 x 56 1/2		4'0" x 5'0"		
	58 1/8 x 56 1/2		5'0" x 5'0"		
	70 1/8 x 56 1/2		6'0" x 5'0"		
GROUP V	56 1/2 x 66		8'7 3/16" x 5'7 5/16"		<p>Farley & Loetscher Mfg. Co., Dubuque, Iowa ("UNIPAK" PICTURE WINDOW GROUPS)</p> <p>Sash and frames available only with flanking casement windows.</p>
	64 1/2 x 66		9'3 3/16" x 5'7 5/16"		
	72 1/2 x 66		9'11 3/16" x 5'7 5/16"		
GROUP VI	48 x 48		4'3" x 4'4"		<p>Rolscreen Co., Pella, Iowa</p> <p>Sash and frames also available without flanking casement windows.</p>
	72 x 48		6'3" x 4'4"		
	48 x 60		4'3" x 5'4"		
	72 x 60		6'3" x 5'4"		
GROUP VII	42 x 66				<p>Six miscellaneous even inch sizes have been added for simplicity. These sizes are not intended for any specific type of sash.</p>
	84 x 66				
	96 x 66				
	42 x 72				
	84 x 72				

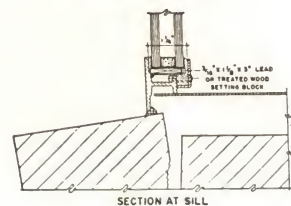
GROUP I



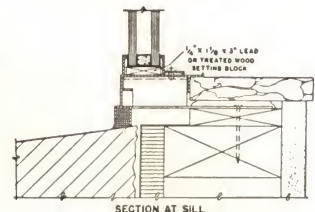
GROUP II



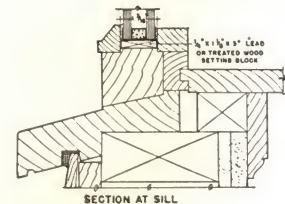
GROUP III



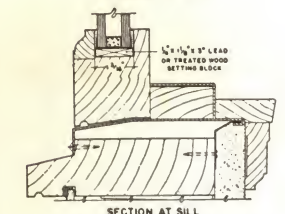
GROUP IV



GROUP V



GROUP VI

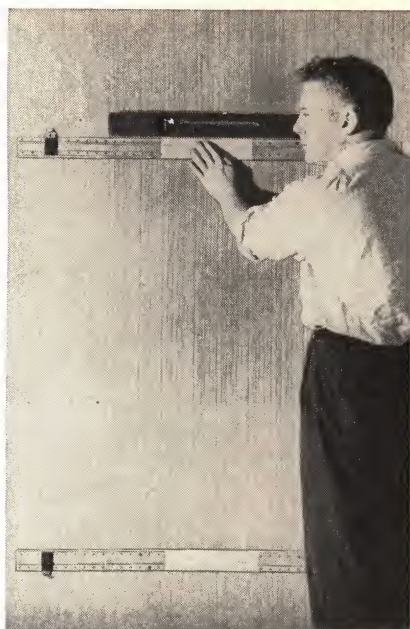


Twindow units in all groups may be stop glazed in structural wood members without using sash as such.

Extreme caution should be taken that any built-up wood members are true, structurally sufficient to support the weight of Twindow, and constructed from well-seasoned wood.

Twindow sizes in all groups may be reversed, width and height, making, in effect, 94 sizes.

Pittsburgh Structural Mirrors



Mirror Installation made easy

With the introduction of its new mirror brackets, the Pittsburgh Plate Glass Company has greatly simplified the installation of many Plate Glass Structural Mirrors. As shown in the photo, two parallel brackets are installed on the wall with screws or toggle bolts. The mirror is then set in the stationary clips on the lower bracket. The top ratchet clips are pushed down in place over the mirror—and the whole job is finished. Complete instructions and correct size brackets will be furnished with the mirror.

You can make your homes look more attractive to buyers with well-placed Pittsburgh Structural Mirrors. They make a narrow room appear wider and dark corners seem brighter. Pittsburgh Mirrors include types and styles for every structural and decorative purpose. They are made from genuine Pittsburgh Plate Glass and offer superior reflectivity. For striking and unusual effects, Pittsburgh Mirrors may be obtained made from blue, flesh tinted or green (Solex) Plate Glass. In addition to the regular silver backing, they are available with a beautiful gold backing and a smart gunmetal backing. Where protection against weather and moisture is required, Pittsburgh Copper-Back Mirrors are recommended.

SHOW THIS LABEL . . .

it's the mark of quality Plate Glass

This familiar Pittsburgh Blue Label is widely advertised to consumers; is generally accepted as the mark of Plate Glass quality. Each Pittsburgh Mirror carries it. We suggest you show it on the mirrors in your homes. It will help give an over-all feeling of quality and added value.



Room by B. Altman & Company, New York, N. Y.

Pittsburgh Full-Length Door Mirrors



It's easy to give your homes that "extra-value" look. Just install several of these much-wanted full-length door mirrors—in bedrooms and entrance halls, for instance. You'll find the additional cost slight and very much worth-while.

Installation of Venetian and Framed Full-Length Mirrors on wood doors

It is suggested that the door be re-

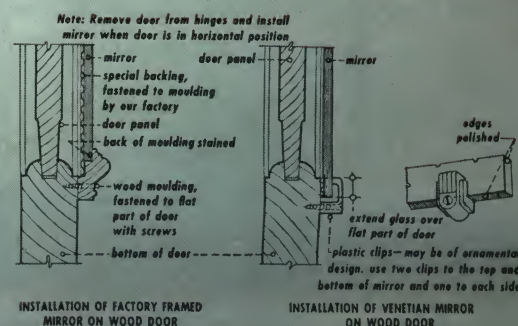
moved from the hinges and the mirror installed with the door in a horizontal position.

How to measure for Door Mirrors

Simply measure the distance from edge to edge of the door itself. This over-all width determines which of the five standard door mirror sizes, listed at left, will cover the recessed door panel.

Door Width	Mirror Size Venetian or Framed
2'	16" x 68"
2'2"	18" x 68"
2'4"	20" x 68"
2'6"	22" x 68"
2'8"	24" x 68"

Note: These mirrors are all 68" high and are made to fit correctly all standard interior residential doors of 6'8" or 80" high. Mirrors for doors other than standard heights can be fabricated by your nearest Pittsburgh Plate Glass Company branch.



INSTALLATION OF FACTORY FRAMED MIRROR ON WOOD DOOR

INSTALLATION OF VENETIAN MIRROR ON WOOD DOOR

Carrara[®] Structural Glass

More and more, homeowners all over the country are demanding that Carrara Structural Glass be included when they build or remodel a home. When you use Carrara Glass for the walls and ceilings of bathrooms and kitchens, you underscore the *extra value* built into your homes.

With all its recognized high quality, Carrara Glass is not a "luxury" material. For higher income groups, there is of course no substitute for a bathroom or kitchen completely walled with Carrara Structural Glass. Where costs and budget considerations are a limiting factor, Ready-Built Carrara Glass Panels (described on the opposite page) will ideally solve the problem. These panels place Carrara Glass within the reach of the home buyer of modest income.

For truly distinctive, easily sold homes—for the kind of remodeling jobs that increase your reputation for fine work and bring you more business—give people the added beauty and advantages of Carrara Structural Glass. Here is the finest and loveliest of wall coverings. Like fine Plate Glass, Carrara is mechanically ground and polished to a flawless, brilliant surface. It's unmatched in richness, color and elegance. It lasts indefinitely. It doesn't fade, stain, or change color with age. It won't absorb odors or moisture. Grease, grime, grit, acids, water and pencil marks can't affect it. And it's easily kept clean and sparkling with just a damp cloth.

USES: Carrara Glass is nationally recognized as the finest wall covering available for bathrooms, powder rooms, and kitchens—either in ceiling-height applications or as wainscots of various heights. It is excellent for window sills, niche linings, mantels and surrounds for fireplaces. In the kitchen it is ideal for splashboards and stove

CARRARA Glass window sills, like the one sketched here, add a lot of sales appeal to your homes. It's the kind of added feature that makes one house stand out from others of similar style. Carrara is waterproof.



backings, since it is impervious to grease, grime, acids, water, etc., and is easily cleaned.

INSTALLATION: Carrara Glass is easy to install. To assure that installations are made according to our standards, we maintain our own crews of workmen. Carrara Glass may be installed over any hard, firm wall surface. It's applied by means of a plastic cement which bonds permanently with the glass and the wall, yet allows for settling, shrinkage and expansion.

COLORS AVAILABLE: Ten attractive colors are available: Black, Gunmetal, White, Ivory, Tranquil Green, Forest Green, Gray, Rembrandt Blue, Wine, and Shell Pink.

THICKNESSES: Black, White, Gray, Ivory— $\frac{1}{32}$ ", $\frac{1}{16}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ ", $1\frac{1}{4}$ ". Black is also available in $\frac{1}{4}$ ". Tranquil Green— $\frac{1}{32}$ ", $\frac{1}{16}$ ", $\frac{7}{8}$ ", $1\frac{1}{4}$ ". Forest Green, Beige, Orange, Wine, and Rembrandt Blue— $\frac{1}{32}$ " only.



WHEN you use Carrara Glass on bathroom walls, you give buyers "plus value" that can be seen. Carrara is the finest of wall coverings. And it's an everlasting material. Decorative panel above the tub is one of the many possibilities offered by Carrara Glass. The smart Plate Glass shower enclosure also is a feature which homeowners appreciate.



KITCHENS with walls and ceilings of Carrara Glass, as shown above, are the home maker's dream. When you build or remodel, include Carrara Glass here, as well as in bathrooms. It brings smartness, beauty and practical utility to any home—in any price range.

The new "DECORATOR BATH" featuring Carrara Glass

The new "decorator type bath"—combining Carrara Structural Glass with wallpaper or paint—has been especially designed to put the beauty, durability, easy cleaning and moisture resistance of Carrara in bathrooms having a "luxury look" at an economy price.

There are many advantages to this new "decorator bath". Because less Carrara Glass is used, it is much less expensive than an entire Carrara wall installation. It allows the speculative builder to take advantage of the sales-appeal of Carrara by using some of it in lower-priced homes. It gives the homeowner a free rein in decorating the remaining bathroom walls with paint or paper. And it is relatively fast, easy and inexpensive to install. Complete instructions for measuring and installing are available from Pittsburgh Plate Glass dealers. Shown here are three typical instruction steps and pictures.



1 Just 3 simple steps are necessary prior to ordering glass—measure the back wall along the tub length; measure the various lengths of base; make cardboard patterns of the locations of the plumbing outlets.



2 Apply a thick coat of mastic along tub rim. Place bottom back Carrara glass panel against back wall and apply pressure against glass to give proper adhesion between the glass and wall. Use a level to make certain the panel is plumb.



3 Set tub end panel in same manner as back panels. Holes in panel were shop drilled according to cardboard pattern.

Paint Right with *Color Dynamics*! * **Paint Best** with *Pittsburgh Paints*!

*Trade-Mark Registered.



You can't go wrong when you follow these directions. Home buyers know that with **COLOR DYNAMICS** you paint *right*, and with **Pittsburgh Paints** you paint *best*. Take advantage of this by utilizing the principles of Color Dynamics—by using Pittsburgh Paints

—not only to beautify and protect the homes you build, but also to promote the comfort, safety and well-being of your customers — the homeowners. Complete details may be obtained from your nearest *Pittsburgh* branch or dealer.

PITTSBURGH PRODUCTS are Leaders in Store Modernization Work

Pittsburgh Plate Glass Company can supply you with a complete line of products for store modernization work. These include Plate Glass, Carrara® Structural Glass, Twin-dow® Insulating Units, Pittsburgh Mirrors, PC Glass Blocks, Pittsburgh Doorways, Herculite® Doors, Pittsburgh Paints and Pittco® Store Front Metal.

Through sustained, consistent advertising and outstanding performance in the field, these Pittsburgh Products have achieved unquestioned leadership in both store front and

store interior modernization work. Expert crews of workmen are available at Pittsburgh branches and dealers throughout the country to help you with the installation of these Pittsburgh Products. Free, illustrated literature, showing how you can use glass effectively in store modernization jobs, will be sent to you gladly upon request. Get in touch with the nearest branch or dealer of Pittsburgh Plate Glass Company, or write direct to Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.



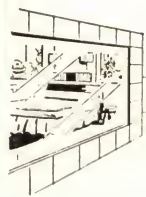
CARRARA STRUCTURAL GLASS

The finest in wall coverings. Combines beauty, versatility, sanitation, permanence and reasonable cost.



PITTSBURGH MIRRORS

Made from Plate Glass of superior quality. For storefronts, Pittsburgh Copper-Back Mirrors give additional protection against deterioration from climatic or atmospheric conditions.



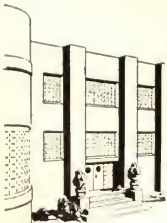
POLISHED PLATE GLASS

The finest material for installing in show windows and display cases, and for scores of interior decorative purposes. Offers clarity of vision, beauty and dignity.



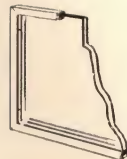
HERCULITE DOORS

Special tempering process gives Herculite Doors 14 times the strength of regular Plate Glass of equal thickness. Many times more resistant to impact and shock.



PC GLASS BLOCKS

Clear, colorless, all-glass units. Have more than twice the insulating value of ordinary single-glazing. Used for light-transmission, light direction and decoration.



TWINDOW

The window with built-in insulation. Permits use of larger windows, decreases load on air-conditioning and heating equipment, helps maintain desired temperature and humidity levels.



HEAVY PLATE GLASS

Ideal for decorative panels and partitions, shelves, skylights, theatre marquees, bank fixtures, telephone booths. Gives perfect vision.



PITTSBURGH DOORWAYS

Complete in one "package." Eliminate many time-consuming details of setting and fitting. Replace complicated custom-made frames. Available in 12 standard, and four free-standing, designs.



PITTSBURGH PAINTS

Give your homes longer-lasting beauty. Real oil-base paints that cover almost any surface with one coat. Spread uniformly, dry quickly, wash easily.



PITTCO STORE FRONT METAL

Available in two lines, both outstanding in the field. Carefully-planned and styled. Beautiful, practical, easy to install.



FLOOR HINGE

Pittco Checking Floor Hinge is a marvel of modern engineering. Compact, 6 3/4" x 6 3/4", includes positive door-speed control, separate checking control, built-in hold-open feature.

Pittcomatic Hinge is a new Pittsburgh development. A slight touch on the handle and the door swings open—silently and smoothly as if by magic. Double-acting hinge requires no posts, channels or air compressors.

Pittsburgh Glass Products Are Readily Available Through Branches and Dealers Everywhere

Consult the Classified Section of your local telephone directory.



PAINTS • GLASS • CHEMICALS • BRUSHES • PLASTICS • FIBER GLASS

PITTSBURGH PLATE GLASS COMPANY

IN CANADA: CANADIAN PITTSBURGH INDUSTRIES LIMITED